

INTRODUCTION

The study of the properties of an ionised gas has supplied the basic data in Plasma Physics research. For the purpose of making an effective thermonuclear reaction and derive useful power there from, it has been proposed to confine the plasma by a magnetic trap and various forms of such traps have been postulated. For the design of such traps it is essential that the properties of ionised gases under an external magnetic field should be thoroughly investigated. Further, the study will give information regarding the change in the processes of generation and loss mechanism of ions and electrons due to the interaction of the magnetic field with the charged particles. With these objects in view the present work has been undertaken.